	Approved For Release 2004/05/12 : CIA-RDP78B04747A000300020005-2	25X1
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· :	Attachment to:	25X1
	MEMORANDUM FOR: Chief, Technical Services Group, NPIC	
	ATTENTION : Chief, Technical Operations Staff, NPIC/TSG	·
	SUBJECT: NPIC/TSG/RED Monthly Report for August 1972	·
1	SIGNIFICANT ITEMS OF INTEREST FOR AUGUST 1972:	
	1. Ground Coverage Display The Phase	25X1
	I report has been delivered by and is being evaluated	25X1
5X1	by Phase II will not commence until	•
	system-evaluation-criteria weighting factors have been	
5X1	agreed upon by committee personnel.	
	2. Automated Image Assessment This project has	25X1
!	been delayed slightly awaiting delivery ofimagery	25X1
1	from NPIC. We are currently evaluating imagery	25X1
5X1	by RADC. If the resulting quality is	
1	good enough, we will use this equipment for generating the	
: :	test imagery.	25X1
25X1	Mensuration Parameters Data Storage	
. 1	Work is progressing as planned. A sub-contract was let to	•
	to investigate the feasibility and cost of	25X1
25X1	Declass Review by NIMA/DOD	25X1
5X1	NRO review(s) completed.	
:	Titto Teview(o) completed.	25X1
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Resolution Wide-Field Microstereoscope 25X1 readings were taken on a bench set-up to determine whether specified optical performance had been achieved (last milestone before final assembly). Resolution off-axis was below specification; therefore, the contractor was instructed to align one complete optical path using the recently completed 25X1 upper casting prior to proceeding into final fabrication.

A full 15x Eyepieces and 3x Objectives dress design review was held at NPIC on the development of a 120x capability for the Zoom 240 Stereoscope. eyepiece will have lower distortion, greater eye relief and the same field-of-view when compared to the present 10x eyepiece. It also appears that the 3x stereo and mono objectives can be made near parfocal so that it will be unnecessary to remove the stereo objectives while viewing

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4.	August 1972	
	in mono. Additional plans are underway to design a 15x	
· ·	eyepiece for the older style Zoom 240's	25X1
25X1	which have eyepiece tubes too short to accept	
	the present 15x design.	·
	7. High Intensity Light Source (HILS) The	25X
,	HILS passed preacceptance tests at the contractor's plant.	
	It was delivered to NPIC on 28 August and turned over to	•
	TSG/ESD for test and evaluation.	
25X1	8. DI-8 Light Table TSG/RED and DIA	25X
	personnel performed preacceptance tests on this table at	
25X1	The table will be delivered to the DIA	
25X1	spaces early in September. TSG/RED and	
	DIA will perform preliminary tests prior to turning the	
	table over to TSG/ESD in mid-September.	
	9. Dry Color Film Development New sensitizing	25X
	dyes were recently found which give nearly complete color	
	sensitivity separation between the blue and green layers .	
	and excellent separation between the green and red layers.	
	10. Scan Search PI Station (SSPIS) The automatic	25X
	scan modification to the SSPIS has been completed. TSG/ESD	
	is presently testing this modification and the SSPIS will be	
	installed in IEG in mid-September for operational suitability	
	tests.	057
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		25X^
	11. Binocular Magnifier The contractor	25X
25X1	demonstrated a revised mockup of this instrument	
	to a group from NPIC. Agreement was reached on mechanical	
	design of the prism housing, support base, and IPD adjustments.	
	Safety and storage considerations for using this instrument	
25X1	on the light table were also discussed.	
	12. Image Comparison Microstereoscope (ICM)	25X
	TSG/ESD has completed the tests on the ICM and the instru-	
	ment is being utilized in TSG/APSD. Results of the tests	
	are being evaluated for final inputs to the specifications	
	for the production version.	
	13. Diagnostic Computer Program for HPSC	25X
25X1	spent six days checking out the calibration	
	program on the HPSC. An error of 10-20 micrometers over a	
	distance of 12 centimeters was found. This could be due to	
	round-off error in the computer or to shrinkage of the	25X1
	base film. Preliminary tests with glass plates indicate an	
	error of only 1-2 micrometers over the same distance. How-	
	ever, calculations based on room temperature and humidity	
	variations show that the discrepancy is too large to attribute	
	solely to film base shrinkage. Further investigation is pro-	
	ceeding with the assistance of IEG/PHD.	25X
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25X1 SUBJECT: NPIC/TSG/RED Monthly Report for August 1972 14. Optical Filters and Holograms 25X1 Visited 25X1 and witnessed a significant advancement in "real-time" optical filter and hologram generation also briefed on their small in-house effort in 25X1 pattern recognition and their use of the "RBV" in tactical photo interpretation. 25X1 15. Improved DIM Capability. The Computer Display Terminal was received and is presently being used by TSG/RED and PSG/AID personnel in the development of 25X1 the new DIM software package. The high speed arith-25X1 metic unit for the 25X1 computer was also received and installed. 16. Imagery Interpretation Research 25X1 The evaluation of the IEG SALT rating scale a. has almost been completed 25X1 Computer statistical analysis is completed and the report on this task will be delivered in September. administered the fifth peripheral acuity test to the sixteen IEG PI's. 25X1 This testing program is continuing to go well. 5 25X1

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c. Construction was started on a PI Search
Test using imagery. This test will be
used to evaluate the Search Improvement
Course.

- d. A preliminary report on the Wide Field Microstereoscope was received.
- e. The final report on a consultation task to set design specifications for light table focus controls was received.
- have become the first NPIC contracts to have all their technical documents put on microfiche. Almost 200 documents have been reduced to microfiche form and are filed into an area half the size of a shoe box.
- 17. Narrowband Color Viewer. A proposed program to evaluate the concept of narrowband illumination as related to the exploitation of color photography was completed during the reporting period. The program is intended to generate necessary and sufficient data for Center management to decide upon the further development of the narrowband illumination concept.

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	MEETINGS, BRIEFINGS, ETC.:	
25X1	RED briefed	25X1
25X1	on 8 August	
	1972 on techniques of chemical and optical processing of	
	images and other data.	
	TRAINING:	25X1
	The Color Training Course was given	20/(1
25X1	on 28-31 August. An excellent turn-out	
	for both the lecture and laboratory sessions made this one	
*	of the most successful in-house courses given in a technical	
•	area.	
	PROPOSALS APPROVED AND RECEIVED:	
	1. A development objective has been prepared for a PI	
	Stage Reticle. Proposals are due in NPIC by the end of	
	September.	•
· · · · · · · · · · · · · · · · · · ·	2. A development objective is being prepared for	
	Investigation into High Resolution Printing Techniques. A	
1	preliminary copy is being circulated for comments.	
	3. A proposal has been received from for	25X1
: :	a revised version of the Optical Equipment Test Kit.	
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	SUBJECT: NPIC/TSG/RED Monthly Report for August 1972
	PERSONNEL:
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	SIGNIFICANT TIEMS OF TAMBUTANT DES
	SIGNIFICANT ITEMS OF INTEREST FOR SEPTEMBER 1972:
	The TID will be moved from Room 2N806 to 2N147.
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	Deputy//Chief Research & Engineering Division NPIC/TSG
	Distribution: Original & 1 - NPIC/TSC
*	Original & 1 - NPIC/TSG 1 - NPIC/TSG/RED
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